ATEN
Simply Better Connections™

Energy Intelligence PDU for Data Centers

2013

Our Vision

"Simply Better Connections" has always been at the heart of the ATEN brand. It means providing innovative solutions for you to make better connections, efficiently and seamlessly, to the information and people that you value. As a result, ATEN connects you to the world, anytime and anywhere, by providing technologies that enable you to share and to care. ATEN makes professional and personal life easier, simpler, and better connected.

About ATEN

ATEN, established in 1979, is specialized in connectivity and management solutions in accessing and sharing technologies. ATEN consolidates all of its products and services under one brand – ATEN, in order to provide an efficient and consistent service standard. The ATEN brand consists of innovative solutions applied to connectivity, professional audio/video, and green energy, for consumers, small/home offices (SOHO), small to medium sized businesses (SMB), and enterprise customers.

ATEN's Energy Intelligence PDUs for Data Centers

At ATEN we are committed to offering real solutions for data centers, to this end, ATEN's Green Energy solutions offer the latest in energy intelligence. Our solutions for data centers begin with a wide range of eco PDUs, developed to support ISO50001, that take intelligence to the next level by providing real-time energy management, control, and energy-saving efficiency by allowing you to easily upgrade current IT resources quickly and cost effectively.

As PDU experts we have developed a variety of standardized and modularized rack PDUs in both 1U and 0U types to suit most data centers. As PDU experts we understand that some data centers have requirements that can't be met effectively with "off the shelf models", therefore we also offer customers a BTC "Build to Configuration" service to construct PDUs according to their individual requirements, effectively providing the ideal power solution.

ATEN's dedicated PDU team offer professional solutions in developing energy efficiency. Only with accurate measurements and accurate data can data centers develop effective strategies and employ effective technologies for energy reduction.

ATEN delivers and we care about our customers. We are committed to the best customer support in the industry.

PDU Comparison

Features	1U PE6	1U PE8	PE1/PE2	PE5	PE6	PE7	PE8	PE9
Model	PE6108 PE6208	PE8108 PE8208	PE1216/PE2220 PE1324/PE2340	PE5220s PE5340s	PE6216 PE6324	PE7214 PE7328	PE8216 PE8324	PE9222 PE9330
Rack Space	1U	1U	0U	0U	0U	0U	0U	0U
Outlet	8	8	16/20 24/40	20/40	16/24	14/28	16/24	22/30
Remote Power Control	V	V			V		V	V
Metering Capability	PDU Level	Outlet, PDU Level	Bank Via EC1000 EC2004	Bank, PDU Level	Bank, PDU Level	Outlet, Bank, PDU Level	Outlet, Bank, PDU Level	Outlet, Bank, PDU Level
Environment Monitoring	V	V		V	V	V	V	V
eco Sensors Support	V	V	Via EC1000 EC2004	V	V	V	V	V
Proactive Overload Protection		V					V	V
Critical Load Outlet								V

EC1000/EC2004
PE1216/PE1324
PE2220/PE2340

Energy BOX
Energy PDU

Energy PDU PE1216/PE1324/PE2220/PE2340

The Energy PDU contains 16/24/20/40 AC outlets and is available in various IEC or NEMA socket configurations. It features a space-saving 0U design that allows it to be mounted vertically on the outside of the rack, resulting in a more efficient use of server room space.

- Space saving 0U rack mount design
- IEC or NEMA outlet models

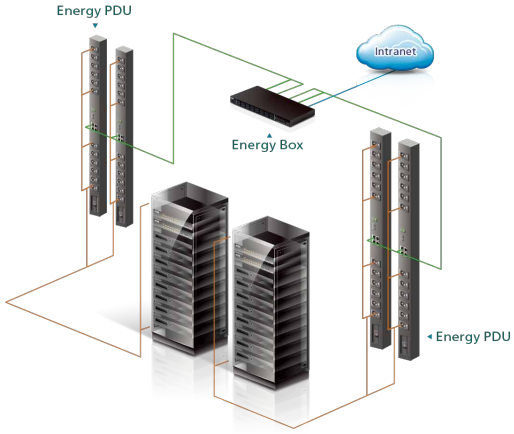
Energy Box EC1000/EC2004

NRGence™ Energy Box is an intelligent 1U (0U vertical hook also available) power monitor unit which can monitor the current from 4 Energy PDUs and 4 temperature, humidity, or differential pressure sensors. It is a standalone Over IP monitor box that can be controlled by Web UI or eco Sensors software. Conveniently deploying Energy Boxes in your rack, connected to Energy PDUs, allows all current information from the PDUs to be collated and displayed on the Energy Box for easy viewing and monitoring.

- 4 Energy Sensor ports for Energy PDU current monitoring (0A to 32A per port)
- 4 Environment Sensor ports for temperature, humidity and differential pressure monitoring
- Space saving 0U/1U rack mount design
- Remote real-time current management and monitoring
  - Current threshold level setting provision
  - Name assignment to individual PDU
- Wide Management Option Range
  - Remote management via IP network with Web Brower, eco Sensors software or 3rd party SNMP manager
- Exceed threshold alert through
  - Local: audio alarm and LED light blinking
  - Remote: SMTP/SNMP trap/Syslog

Function	EC1000	EC2004
Inlet	Power Adapter DC 5V (1.8m)	Power Adapter DC 5V (1.8m)
Current Monitor	4 x Energy Sensor Connection port	2xCurrent+2xCurrent/Voltage Energy Sensor Connection Port
Environment Monitor	4 x Environment Sensor Connection port	4xEnvironment Sensor Connection Port
LAN	1 x RJ-45 Female with LEDs	1xRJ-45 Female with LEDs
Monitoring Range	100~240V; 50/60Hz; 0A to 32A (per port) LED Display Resolution 0.1A Accuracy: ±0.1A@0 ~ 1A, ±1%@ >1A	100~240V; 50/60Hz; 0A to 32A (per port) LED Display Resolution 0.1A Accuracy: ±0.1A@0 ~ 1A, ±1%@ >1A

Setup



Model	Rack Space	Input Voltage	Derated AMP	Max AMP	Input Plug	# of Bank	Outlet	Outlet Control	Meter	Certification
PE1216A	0U	100-120V	16A	20A	NEMA5-20P	1x20A	16xNEMA5-15R	None	Bank x 1	FCC, cTUVus, TUV-PSE
PE1216B	0U	100-240V	16A	20A	NEMA6-20P	1x20A	16xIEC 320 C13	None	Bank x 1	FCC, cTUVus, TUV-PSE
PE1216G	0U	100-240V	16A	16A	IEC C20	1x16A	16xIEC 320 C13	None	Bank x 1	CE, TUV-CB, TUV, C-Tick, GOST
PE1324B	0U	100-240V	24A	30A	NEMAL6-30P	2x15A	24xIEC 320 C13	None	Bank x 2	FCC, cTUVus, TUV-PSE
PE1324G	0U	100-240V	32A	32A	IEC60309 32A	2x16A	24xIEC 320 C13	None	Bank x 2	CE, TUV-CB, TUV, C-Tick, GOST
PE2220A	0U	100-120V	16A	20A	NEMA5-20P	1x20A	20xNEMA5-15R	None	Bank x 1	CE-LVD, TUV-CB, Others by request
PE2220B	0U	100-240V	16A	20A	NEMA6-20P	1x20A	10xDuplex Receptacles IEC320 C13	None	Bank x 1	FCC, TUV-CB, Others by Reuest
PE2220G	0U	100-240V	16A	16A	IEC C20	1x16A	10xDuplex Receptacles IEC320 C13	None	Bank x 1	CE-LVD, TUV-CB, Others by request
PE2340B	0U	100-240V	24A	30A	NEMAL6-30P	2x15A	20xDuplex Receptacles IEC320 C13	None	Bank x 2	FCC, TUV-CB, Others by Reuest
PE2340G	0U	100-240V	24A	32A	IEC60309 32A	1x16A	20xDuplex Receptacles IEC320 C13	None	Bank x 2	CE-LVD, TUV-CB, Others by request

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PE6108/PE6208
PE8108/PE8208

ECO PDU

PE6108
- 8 Outlets
- 1U

PE6208
- 8 Outlets
- 1U

PE8108
- 8 Outlets
- 1U

PE8208
- 8 Outlets
- 1U

Power Distribution
- Space saving rack mount design with rear mounting
- IEC or NEMA outlet models
- 3 x 7 segment front panel LED shows Current / IP Address
- Remote users can monitor outlet status via web pages on their browsers
- Safe shutdown support
- Separate power for the unit's own power and its power outlets – the user interface is still accessible even when an overload condition trips the devices' circuit breakers

Remote Access
- Remote power control via TCP/IP and a built in 10/100 Ethernet port
- Network Protocols: TCP/IP, PPP, UDP, HTTP, HTTPS, SSL, SMTP, DHCP, NTP, DNS, auto sense, Ping
- eco PDU Power Management software – eco Sensors
- Supports SNMP Manager V1, V2 & V3

Operation
- Remote power outlet control (On, Off, Power Cycle) by individual outlets
- Supports multiple power control methods – Wake on LAN, System After AC Back, Kill the Power
- Power-on sequencing - users can set the power on sequence and delay time for each outlet to allow equipment to be turned on in the proper order
- Easy setup and operation via a browser-based user interface
- Multibrowser support (IE, Firefox, Chrome, Safari)
- RTC support to keep the timer running during times of no power
- Supports up to 8 user and 1 administrator accounts
- Proactive overload protection(POP) – automatically powers off the last outlet that caused the current overload *Patent Pending!*(PE8 only)

Management
- Power status measurement at PDU level or PDU level (PE8108/PE8208)
- LED indicators for current and IP address at the PDU device level
- Real-time current, voltage, and kWH displayed in a browsed-based UI for monitoring at the PDU level
- Environment monitoring – supports external temperature / temperature & humidity sensors for rack temperature and humidity monitoring
- Current, voltage, power dissipation, energy consumption, temperature, and humidity threshold level setting
- Naming support for outlets
- User outlet access assignment on an outlet-by-outlet basis
- Event logging and syslog support
- Supports Management Information Base (MIB) files for SNMP
- Upgradeable firmware
- Multilanguage support

Security
- Two-level password security
- Strong security features include strong password protection and advanced encryption technologies – 128 bit SSL
- Remote authentication support: RADIUS

Model	Rack Space	Input Voltage	Derated AMP	Max AMP	Input Plug	# of Bank	Outlet	Outlet Control	Meter	Certification
PE6108A	1U	100-120V	12A	15A	NEMA5-15P	1x15A	8xNEMA5-15R	Yes	Bank x 1	FCC, UL, PSE
PE6108B	1U	100-240V	12A	15A	NEMA6-15P	1x15A	8xNEMA6-15R	Yes	Bank x 1	FCC, UL, PSE
PE6108G	1U	100-240V	10A	10A	IEC C14	1x10A	8xIEC 320 C13	Yes	Bank x 1	CE, TUV-CB, TUV, C-Tick, GOST
PE6208A	1U	100-120V	16A	20A	NEMA5-20P	1x20A	8xNEMA5-20R	Yes	Bank x 1	FCC, UL, PSE
PE6208B	1U	100-240V	16A	20A	NEMA6-20P	1x20A	7xIEC 320 C13+1xIEC 320 C19	Yes	Bank x 1	FCC, UL, PSE
PE6208G	1U	100-240V	16A	16A	IEC C20	1x16A	7xIEC 320 C13+1xIEC 320 C19	Yes	Bank x 1	CE, TUV-CB, TUV, C-Tick, GOST
PE8108A	1U	100-120V	12A	15A	NEMA5-15P	1x15A	8xNEMA5-15R	Yes	Outlet	FCC, UL, PSE
PE8108B	1U	100-240V	12A	15A	NEMA6-15P	1x15A	8xNEMA6-15R	Yes	Outlet	FCC, UL, PSE
PE8108G	1U	100-240V	10A	10A	IEC C14	1x10A	8xIEC 320 C13	Yes	Outlet	CE, TUV-CB, TUV, C-Tick, GOST
PE8208A	1U	100-120V	16A	20A	NEMA5-20P	1x20A	8xNEMA5-20R	Yes	Outlet	FCC, UL, PSE
PE8208B	1U	100-240V	16A	20A	NEMA6-20P	1x20A	7xIEC 320 C13+1xIEC 320 C19	Yes	Outlet	FCC, UL, PSE
PE8208G	1U	100-240V	16A	16A	IEC C20	1x16A	7xIEC 320 C13+1xIEC 320 C19	Yes	Outlet	CE, TUV-CB, TUV, C-Tick, GOST

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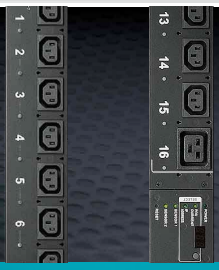
PE5220s/PE5340s PE6216/PE6324

ECO PDU



PE5220s
• 20 Outlets
• 0U

PE5340s
• 40 Outlets
• 0U

PE6216
• 16 Outlets
• 0U

PE6324
• 24 Outlets
• 0U

Power Distribution
- Space saving rack mount design with rear mounting
- IEC or NEMA outlet models
- 3 x 7-segment front panel LED shows Current / IP Address for PDU / Bank
- Remote users can monitor PDU/Bank status via web pages on their browsers
- Safe shutdown support
- Separate power for the unit's own power and its power outlets - the user interface is still accessible even when an overload condition trips the devices' circuit breaker

Remote Access
* Remote power control via TCP/IP and a built in 10/100 Ethernet port
- Network Protocols: TCP/IP, UDP, HTTP, HTTPS, SSL, SMTP, DHCP, NTP, DNS, auto sense, Ping
- eco PDU Power Management software – eco Sensors
- Supports SNMP Manager V1, V2 & V3

Operation
* Remote power outlet control (On, Off, Power Cycle) by individual outlets
* Supports multiple power control methods – Wake on LAN, System After AC Back, Kill the Power
* Power-on sequencing – users can set the power on sequence and delay time for each port to allow equipment to be turned on in the proper order
- Easy setup and operation via a browser-based user interface
- Multibrowser support (IE, Mozilla, Firefox, Chrome, Safari, Opera, Netscape)
- RTC support to keep the timer running during times of no power.
- Up to 8 user accounts and 1 administrator account.

Management
- Power status measurement at the PDU/Bank level
- LED indicators for current and IP address at the PDU device and/or Bank levels
- Real-time aggregate current, voltage, and power and power dissipation displayed in a browser-based UI for monitoring at the PDU level (PE5216/PE6216) and at the bank level (PE5324/PE6324)
- Environment monitoring – supports external temperature / humidity / Differential Pressure sensors for rack environment monitoring
- Current and voltage threshold setting
- Naming support for outlets
* User outlet access assignment on an outlet-by-outlet basis
- Event logging and syslog support
- Upgradeable firmware
- Multilanguage support: English, Traditional Chinese, Simplified Chinese, Japanese, German, Italian, Spanish, French, Russian

Security
- Two-level password security
- Strong security features include strong password protection and advanced encryption technologies – 128 bit SSL
- Remote authentication support: RADIUS

*Features supported by PE6216/PE6324 only

Model	Rack Space	Input Voltage	Derated AMP	Max AMP	Input Plug	# of Bank	Outlet	Outlet Control	Meter	Certification
PE5220sA	0U	100-120V	16A	20A	NEMA5-20P	1x20A	20xNEMA5-15R	None	Bank x 1	FCC, TUV-CB, Others by request
PE5220sB	0U	100-240V	16A	20A	NEMA6-20P	1x20A	20xIEC 320 C13	None	Bank x 1	FCC, TUV-CB, Others by request
PE5220sG	0U	100-240V	16A	16A	IEC C20	1x16A	20xIEC 320 C13	None	Bank x 1	CE, TUV-CB, Others by request
PE5340sB	0U	100-240V	24A	30A	NEMAL6-30P	2x15A	40xIEC 320 C13	None	Bank x 2	FCC, TUV-CB, Others by request
PE5340sG	0U	100-240V	32A	32A	IEC60309 32A	2x16A	40xIEC 320 C13	None	Bank x 2	CE, TUV-CB, Others by request
PE6216A	0U	100-120V	16A	20A	NEMA5-20P	1x20A	14xNEMA5-15R+2xNEMA5-20R	Yes	Bank x 1	FCC, cTUVus, TUV-PSE
PE6216B	0U	100-240V	16A	20A	NEMA6-20P	1x20A	14xIEC 320 C13+2xIEC 320 C19	Yes	Bank x 1	FCC, cTUVus, TUV-PSE
PE6216G	0U	100-240V	16A	16A	IEC C20	1x16A	14xIEC 320 C13+2xIEC 320 C19	Yes	Bank x 1	CE, TUV-CB, TUV, C-Tick, GOST
PE6324B	0U	100-240V	24A	30A	NEMAL6-30P	2x15A	21xIEC 320 C13+3xIEC 320 C19	Yes	Bank x 2	FCC, cTUVus, TUV-PSE
PE6324G	0U	100-240V	32A	32A	IEC60309 32A	2x16A	21xIEC 320 C13+3xIEC 320 C19	Yes	Bank x 2	CE, TUV-CB, TUV, C-Tick, GOST

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PE7214/PE7328
PE8216/PE8324
PE9222/PE9330

ECO PDU

PE7214
- 14 Outlets
- 0U

PE8216
- 16 Outlets
- 0U

PE9222
- 22 Outlets
- 0U

PE7328
- 28 Outlets
- 0U

PE8324
- 24 Outlets
- 0U

PE9330
- 30 Outlets
- 0U

Power Distribution
- Space saving rack mount design
- IEC or NEMA outlet models
- Remote users can monitor outlet status via web pages on their browsers
- Safe shutdown support
- Separate power for the unit's own power and its power outlets – the user interface is still accessible even when an overload condition trips the devices' circuit breakers

Remote Access
- Remote power control via TCP/IP and a built in 10/100 Ethernet port
- Network Interfaces: TCP/IP, PPP, UDP, HTTP, HTTPS, SSL, SMTP, DHCP, NTP, DNS, auto sense, Ping
- eco PDU Power Management software – eco Sensors
- Supports SNMP Manager V1, V2 & V3

Operation
- Remote power outlet control (On, Off, Power Cycle) by individual outlets and outlet groups
- Supports multiple power control methods – Wake on LAN, System After AC Back, Kill the Power
- Power-on sequencing - users can set the power on sequence and delay time for each outlet to allow equipment to be turned on in the proper order
- Easy setup and operation via a browser-based user interface
- Multibrowser support (IE, Firefox, Chrome, Safari)
- RTC support to keep the timer running during times of no power
- Supports up to 8 user and 1 administrator accounts
- Critical load outlet – keeps power always on for critical load devices (PE9 only)

Management
- Power status measurement at PDU and outlet levels
- Current, voltage, power dissipation, and energy consumption displayed in a browser based UI for monitoring at the outlet, group, PDU levels
- Environment monitoring – supports external temperature / temperature & humidity sensors for rack temperature and humidity monitoring
- Current, voltage, power dissipation, energy consumption, temperature, and humidity threshold level setting
- Naming support for outlets and outlet groups
- User outlet access assignment on an outlet-by-outlet basis
- Event logging and syslog support
- Supports Management Information Base (MIB) files for SNMP
- Upgradeable firmware
- Multi-language support
- Proactive overload protection(POP) – automatically powers off the last outlet that caused the current overload *Patent Pending!* (PE8/PE9 only)

Security
- Two-level / Three-level password security
- Strong security features include strong password protection and advanced encryption technologies – 128 bit SSL
- Remote authentication support: RADIUS

*PE7 Outlet is always on.

Model	Rack Space	Input Voltage	Derated AMP	Max AMP	Input Plug	# of Bank	Outlet	Outlet Control	Meter	Certification
PE7214B	0U	100-240V	16A	20A	NEMA6-20P	1x20A	12xIEC 320 C13+2xIEC 320 C19	None	Outlet	FCC, cTUVus, TUV-PSE
PE7214G	0U	100-240V	16A	16A	IEC C20	1x16A	12xIEC 320 C13+2xIEC 320 C19	None	Outlet	CE-LVD, TUV-CB, Others by request
PE7328B	0U	100-240V	24A	30A	NEMAL6-30P	2x15A	24xIEC 320 C13+4xIEC 320 C19	None	Outlet	FCC, cTUVus, TUV-PSE
PE7328G	0U	100-240V	32A	32A	IEC60309 32A	2x16A	24xIEC 320 C13+4xIEC 320 C19	None	Outlet	CE-LVD, TUV-CB, Others by request
PE8216B	0U	100-240V	16A	20A	NEMA6-20P	1x20A	14xIEC 320 C13+2xIEC 320 C19	Yes	Outlet	FCC, cTUVus, TUV-PSE
PE8216G	0U	100-240V	16A	16A	IEC C20	1x16A	14xIEC 320 C13+2xIEC 320 C19	Yes	Outlet	CE, TUV-CB, TUV, C-Tick, GOST
PE8324B	0U	100-240V	24A	30A	NEMAL6-30P	2x15A	21xIEC 320 C13+3xIEC 320 C19	Yes	Outlet	FCC, cTUVus, TUV-PSE
PE8324G	0U	100-240V	32A	32A	IEC60309 32A	2x16A	21xIEC 320 C13+3xIEC 320 C19	Yes	Outlet	CE, TUV-CB, TUV, C-Tick, GOST
PE9222B	0U	100-240V	16A	20A	NEMA6-20P	1x20A	19xIEC 320 C13+3xIEC 320 C19	Mix	Outlet	FCC, TUV-CB, Others by request
PE9222G	0U	100-240V	16A	16A	IEC C20	1x16A	19xIEC 320 C13+3xIEC 320 C19	Mix	Outlet	CE, TUV-CB, Others by request
PE9330B	0U	100-240V	24A	30A	NEMAL6-30P	2x15A	26xIEC 320 C13+4xIEC 320 C19	Mix	Outlet	FCC, TUV-CB, Others by request
PE9330G	0U	100-240V	32A	32A	IEC60309 32A	2x16A	26xIEC 320 C13+4xIEC 320 C19	Mix	Outlet	CE, TUV-CB, Others by request

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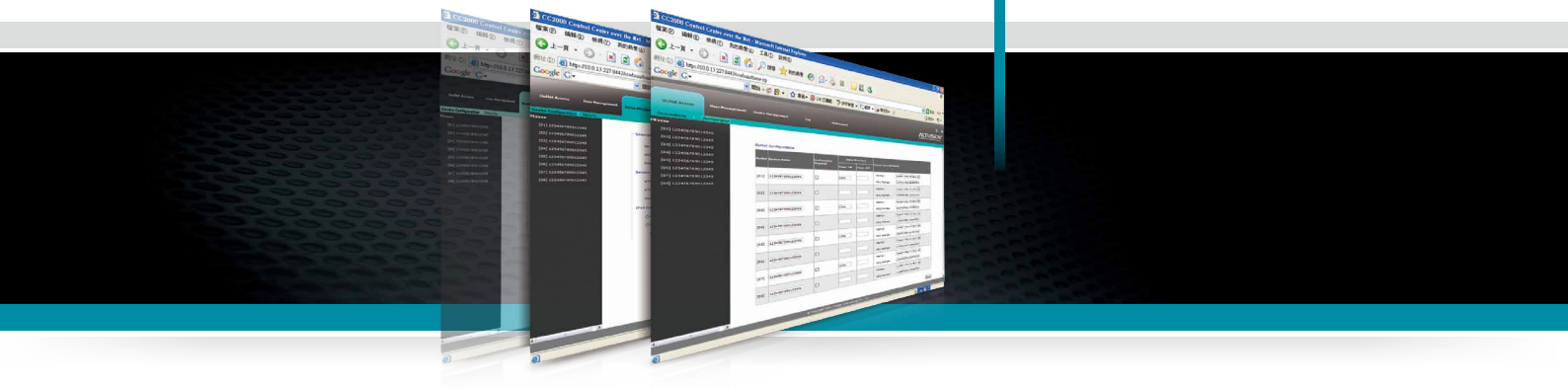
Energy & DCIM Management Software

eco Sensors

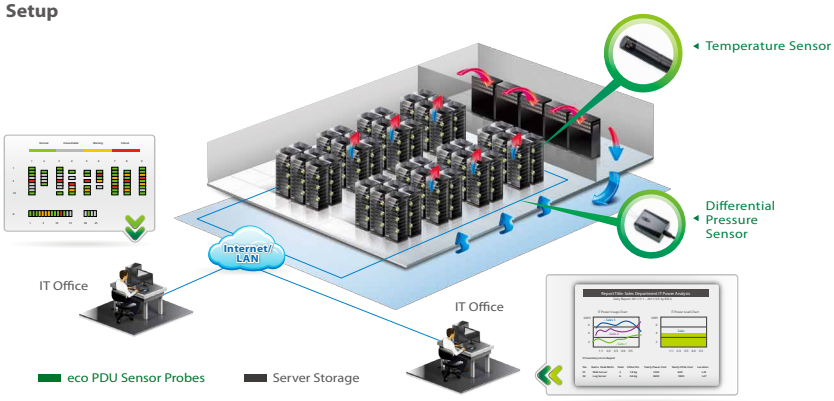


eco Sensors software has been developed to work with NRGence™ power distribution units (PDUs) to effectively increase the efficiency of data center power usage. With the use of dynamic Rack Cooling Index (RCI) and Return Temperature Index (RTI) by zone, eco Sensors software, in conjunction with sensor-enabled eco PDUs, gives you the means to assess, diagnose and estimate how much energy you can save. Following the suggestions generated by the sensor-enabled system allows you to optimize energy usage to save energy without harming your IT equipment's reliability.

- Automatic discovery of all PE devices within the same intranet
- Remote real-time power measurement and monitoring
- PDU level current / voltage / power dissipation / power consumption
- Outlet ON / OFF / Recycle status
- Remote real-time power outlet management*
- Power outlet ON / OFF / Cycle switching by outlet
- User-defined outlet level delays for sequential power up
- Current / Voltage / Power Dissipation / Power Consumption threshold level setting
- User access assignment for every outlet
- Name assignment to individual outlets
- Remote real-time environment sensor monitoring
- Temperature / Temperature + Humidity reading / Temperature + Differential Pressure
- Temperature and Humidity threshold level setting
- Plotting/Monitoring of all PE devices
- Add data center server racks
- Add PE devices for each server rack
- Manage device/device outlet status for each plot
- Offers essential data center indices including RCI(Rack Cooling Index), RTI (Return Temperature Index), RHI (Rack Humidity Index), RPI (Rack Pressure Index), RAI (Rack Airflow Index)
- Power analysis report for optimizing data center energy management – including power usage, power load, power cost, CO2 cost, power capacity and trend
- Exceed threshold alert through SMTP and System log
- 10240 line event log
- System log provision
- Two-level password security

* Not all functions are supported by all NRGence™ PDU. Please see www.aten.com for more details.

Setup



Hardware Requirement

Operating System	Windows XP / Windows Server 2003 and later
CPU	2.0 GHz Dual Core
Display	Larger than 1024x768
Memory	2GB
Disk	300GB
Network	10/100/1000 Mbp Ethernet

System Parameter

Max PDU number	1000
Data Center Layout	45x30
Max Rack Number	500
Max Zone Number	20
Power Report Data	3 years
Real Time Dashboard Data	1 hours

Optional Accessories

Environment Sensors

Part No.	Sensor	Accuracy
EA1140	Temperature	1°C
EA1240	Temperature / Humidity	1°C , 3%RH
EA1340	Differential Pressure / Temperature	1°C , 10 Pa
EA1440	Photo Door Sensor	
EA1441	Inductive Proximity Door Sensor	

Cable Holders

Part No.	Description
2X-EA07	Lok-U-Plug Cable Holder (10 pcs per pack) Patent Pending!
2X-EA08	Lok-U-Plug Installation Tool (4 pcs per pack)

• Lok-U-Plug Installation

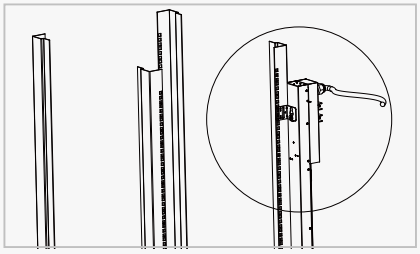
Mounting Kit

Slide Rail Kit (2X-016G)

Button Mount Kit (2X-017G)

• Side Mount Installation

• Button Mount Installation



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Simply Better Connections™

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